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[illegible]

[illegible]

Ping [illegible] Tracert [illegible] Telnet [illegible] FTP [illegible] TFTP [illegible]

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[illegible]

[illegible]

- [illegible]

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[illegible]

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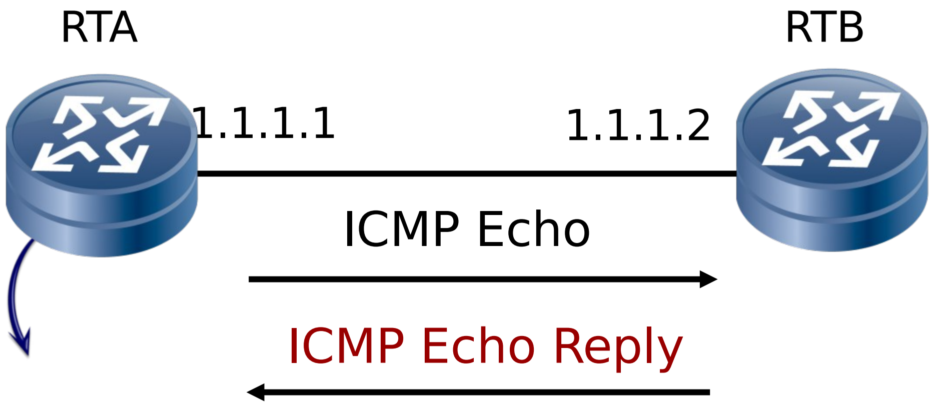
PING




```
[Quidway]ping 1.1.1.2
  PING 1.1.1.2: 56  data bytes, press CTRL_C to break
    Reply from 1.1.1.2: bytes=56 Sequence=1 ttl=255 time=46 ms
    Reply from 1.1.1.2: bytes=56 Sequence=2 ttl=255 time=31 ms
    Reply from 1.1.1.2: bytes=56 Sequence=3 ttl=255 time=31 ms
    Reply from 1.1.1.2: bytes=56 Sequence=4 ttl=255 time=31 ms
    Reply from 1.1.1.2: bytes=56 Sequence=5 ttl=255 time=31 ms

  --- 1.1.1.2 ping statistics ---
    5 packet(s) transmitted
    5 packet(s) received
    0.00% packet loss
    round-trip min/avg/max = 31/34/46 ms

[Quidway]
```

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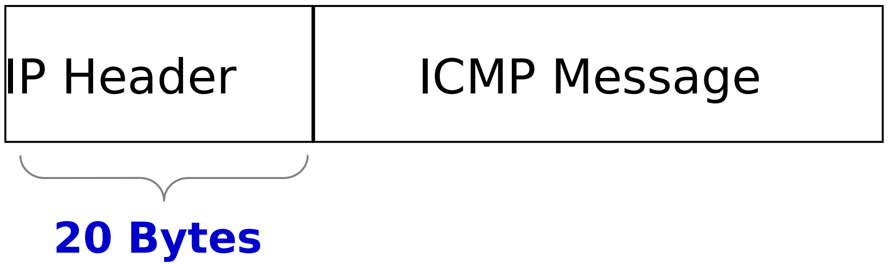
ICMP

ICMP（Internet Control Message Protocol）[illegible]

[illegible]

ICMP [illegible] IP [illegible] TCP [illegible] UDP [illegible] Ping [illegible]



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ICMP

0 Echo Reply

3 Destination Unreachable

5 Redirect

8 Echo

11 Time Exceeded

12 Parameter Problem

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ICMP □□□□

0 7 8 15 16 31

Type	Code	Checksum
Contents depends on type and code		

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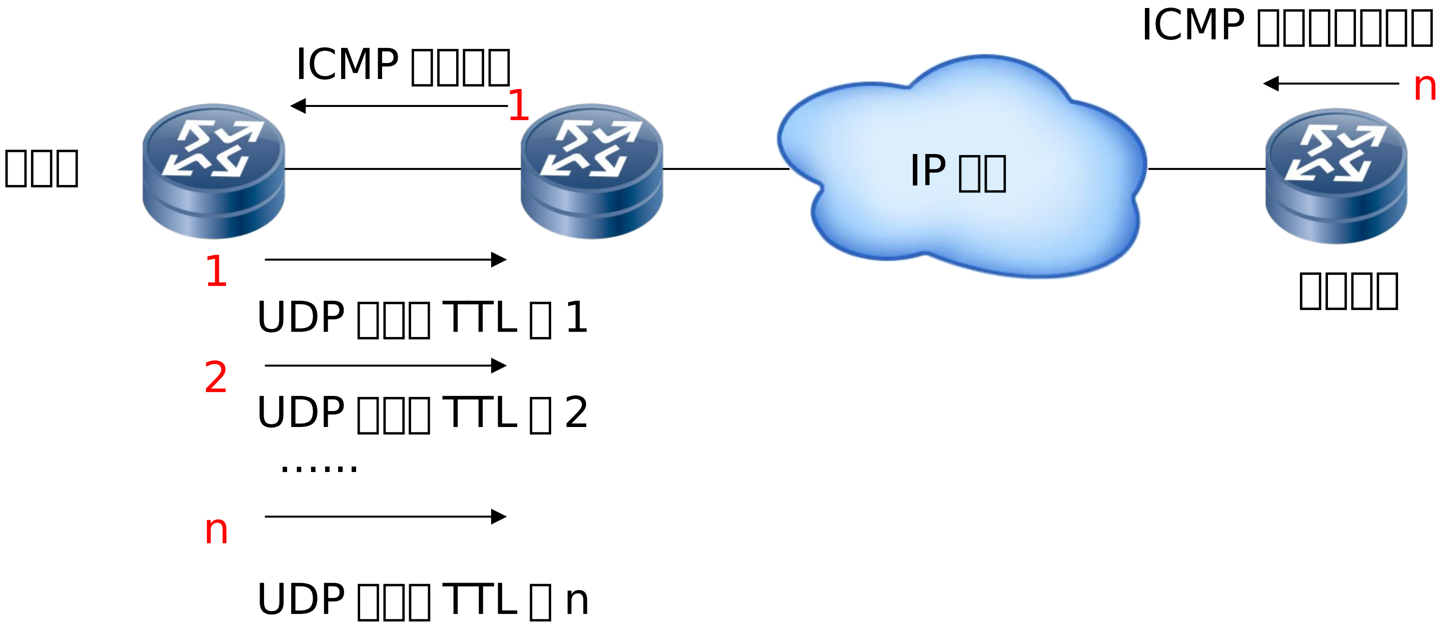
Tracert

Tracert □□□□ IP □□□□□□□□□□□□□□□□□□□□□□□

Trace route □□□□ ICMP □□□ IP □□□□ TTL □□□□□□□□



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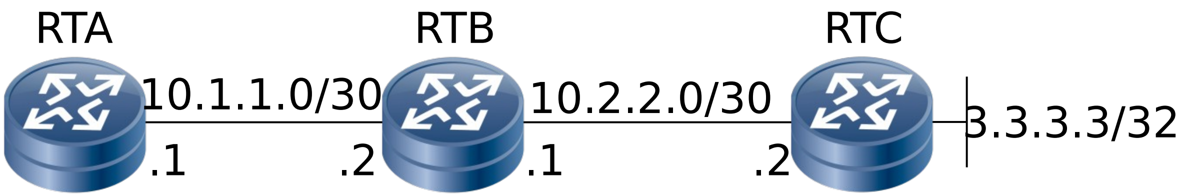
□□□□




```
[Huawei]ping 3.3.3.3
  PING 3.3.3.3: 56  data bytes, press CTRL_C to break
    Reply from 3.3.3.3: bytes=56 Sequence=1 ttl=254 time=63 ms
    Reply from 3.3.3.3: bytes=56 Sequence=2 ttl=254 time=63 ms
    Reply from 3.3.3.3: bytes=56 Sequence=3 ttl=254 time=63 ms
    Reply from 3.3.3.3: bytes=56 Sequence=4 ttl=254 time=63 ms
    Reply from 3.3.3.3: bytes=56 Sequence=5 ttl=254 time=63 ms
```

```
[RTA]tracert 3.3.3.3
 traceroute to  3.3.3.3(3.3.3.3) 30 hops max,40 bytes packet
 1 10.1.1.2 31 ms  31 ms  32 ms
 2 10.2.2.2 62 ms  63 ms  62 ms
```

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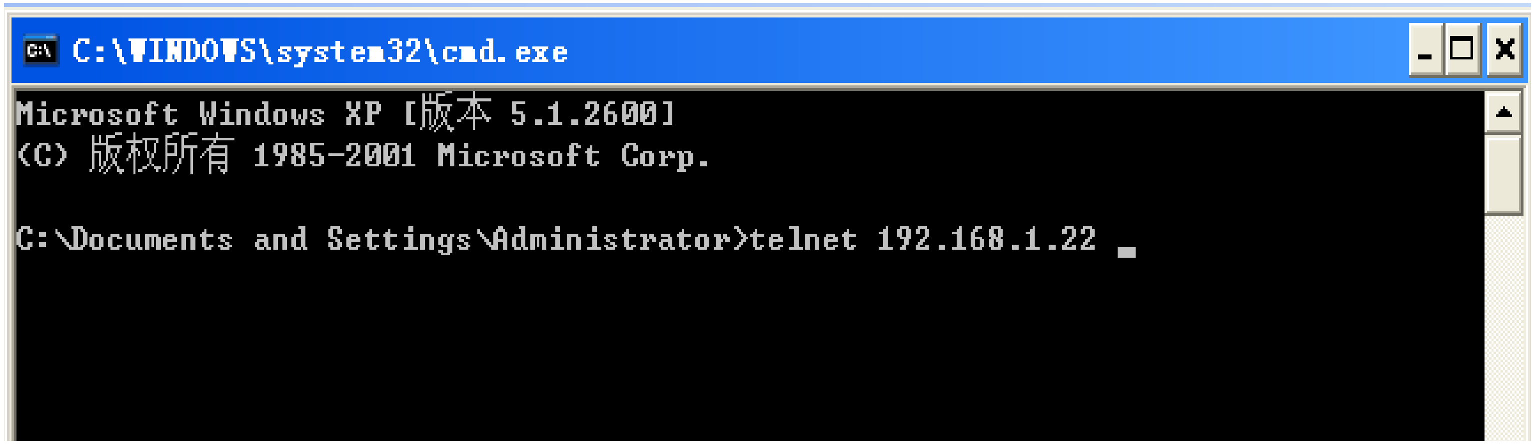
Telnet [illegible]

Telnet [illegible]

Telnet [illegible] TCP [illegible] 23 [illegible]



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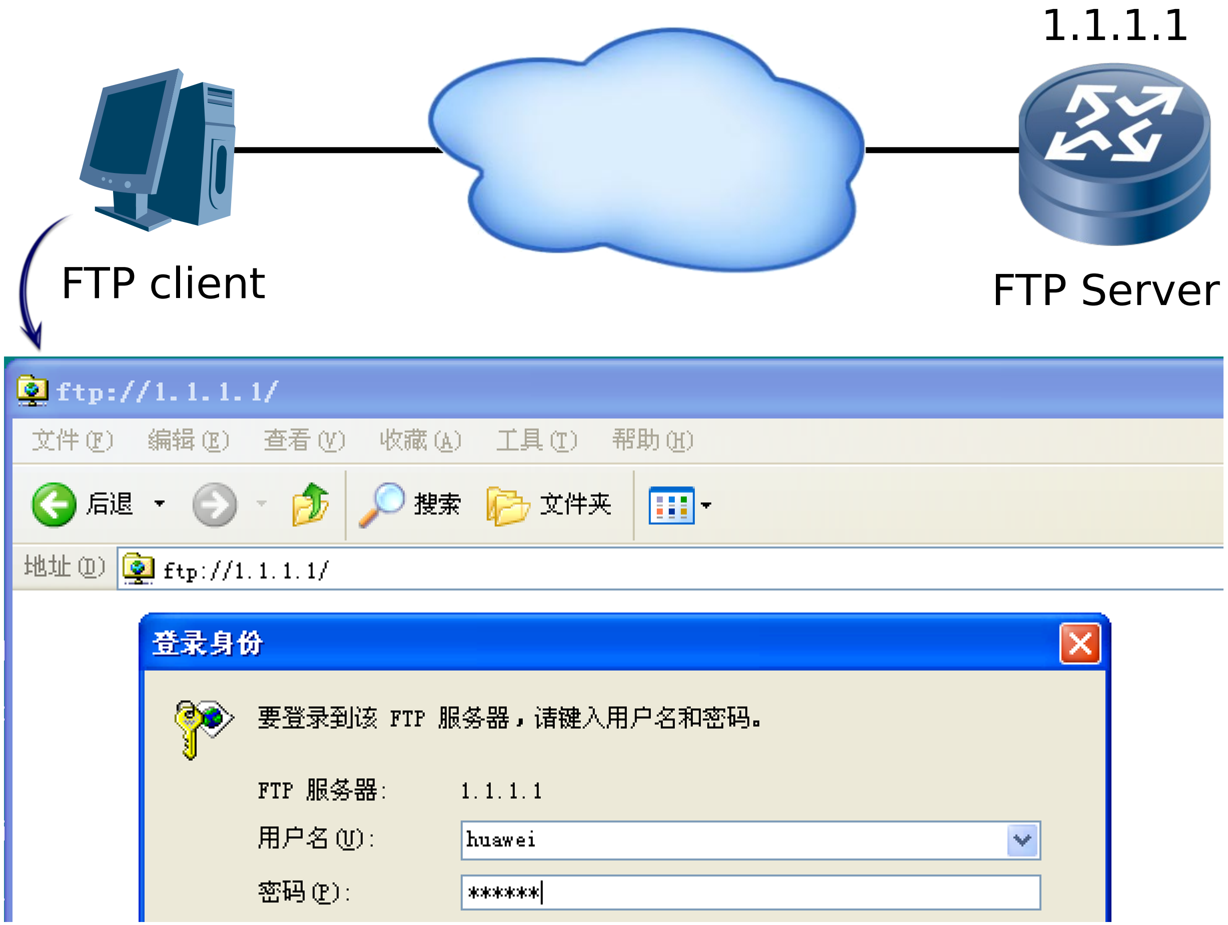
FTP——Server



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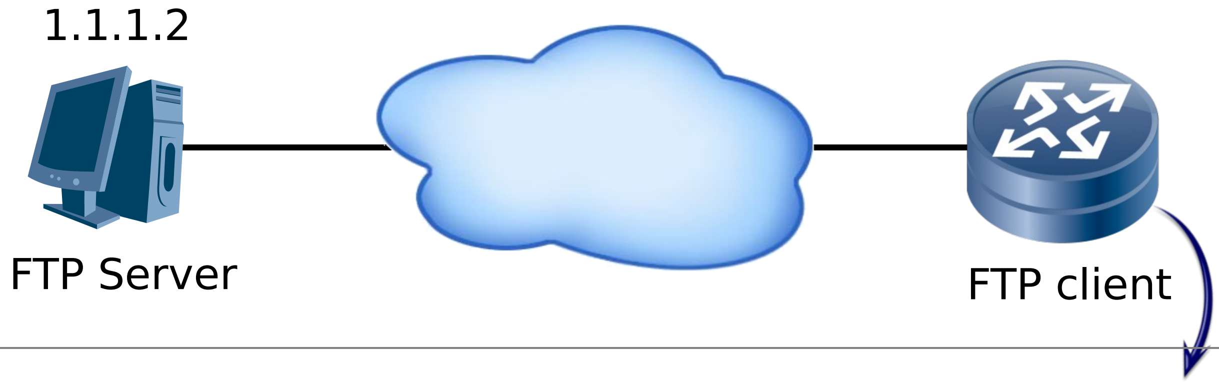
FTP——Client




```
<Huawei> ftp 1.1.1.2
Trying 1.1.1.2 ...
Connected to 1.1.1.2.
......
User(1.1.1.2:(none)):huawei
331 Give me your password, please
Password:
230 Logged in successfully
......
[Huawei] get vrp.cc vrp1
......
150 "D:\system\vrp.cc" file ready to send (5805100 bytes) in IMAGE / Binary mode
226 Transfer finished successfully.
FTP: 5805100 byte(s) received in 19.898 second(s) 291.74Kbyte(s)/sec.
```

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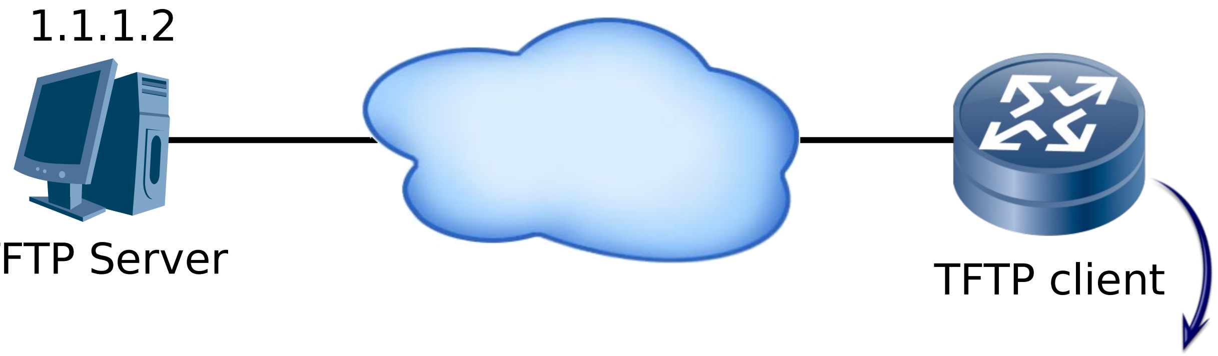
TFTP——Client



□ TFTP □□□□□ switch.bin □□□□□□

<Huawei> tftp 1.1.1.2 get switch.bin switch.bin

□□ vrpcfg.cfg □□□ TFTP □□□

<Huawei> tftp 1.1.1.2 put vrpcfg.cfg vrpcfg.cfg

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HUAWEI

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Ping [illegible] Tracert [illegible]

ICMP [illegible]

FTP [illegible] TFTP [illegible]

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[illegible]

[illegible] (learning.huawei.com [illegible]

1 [illegible] E-learning [illegible]

- [illegible] **E-Learning** [illegible]
- [illegible]“[illegible]”[illegible]“ email [illegible]”[illegible] *Learning@huawei.com* [illegible]

2 [illegible]

- [illegible] **+** [illegible]
- [illegible]“[illegible] / [illegible]”[illegible]

3 [illegible] (LVC) [illegible]

- [illegible] UC&C [illegible]
- [illegible] *http://support.huawei.com/ecommunity/bbs/10154479.html*

4 [illegible] eNSP

- eNSP (Enterprise Network Simulation Platform), [illegible]
  [illegible]

[illegible], [illegible] [illegible][illegible]
http://support.huawei.com/ecommunity/bbs/list_2247.html [illegible]

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